

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P472213

Luminaire Tested: **CCW-VA-1-727-U-T2**

Issue Date: 01/27/2021

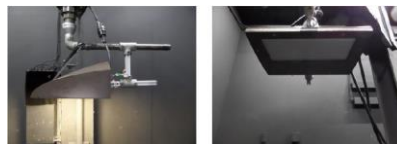
Test Information

Test Method: LM-79-08
Report Number: P472213
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-1-727-U-T2
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2553.3 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

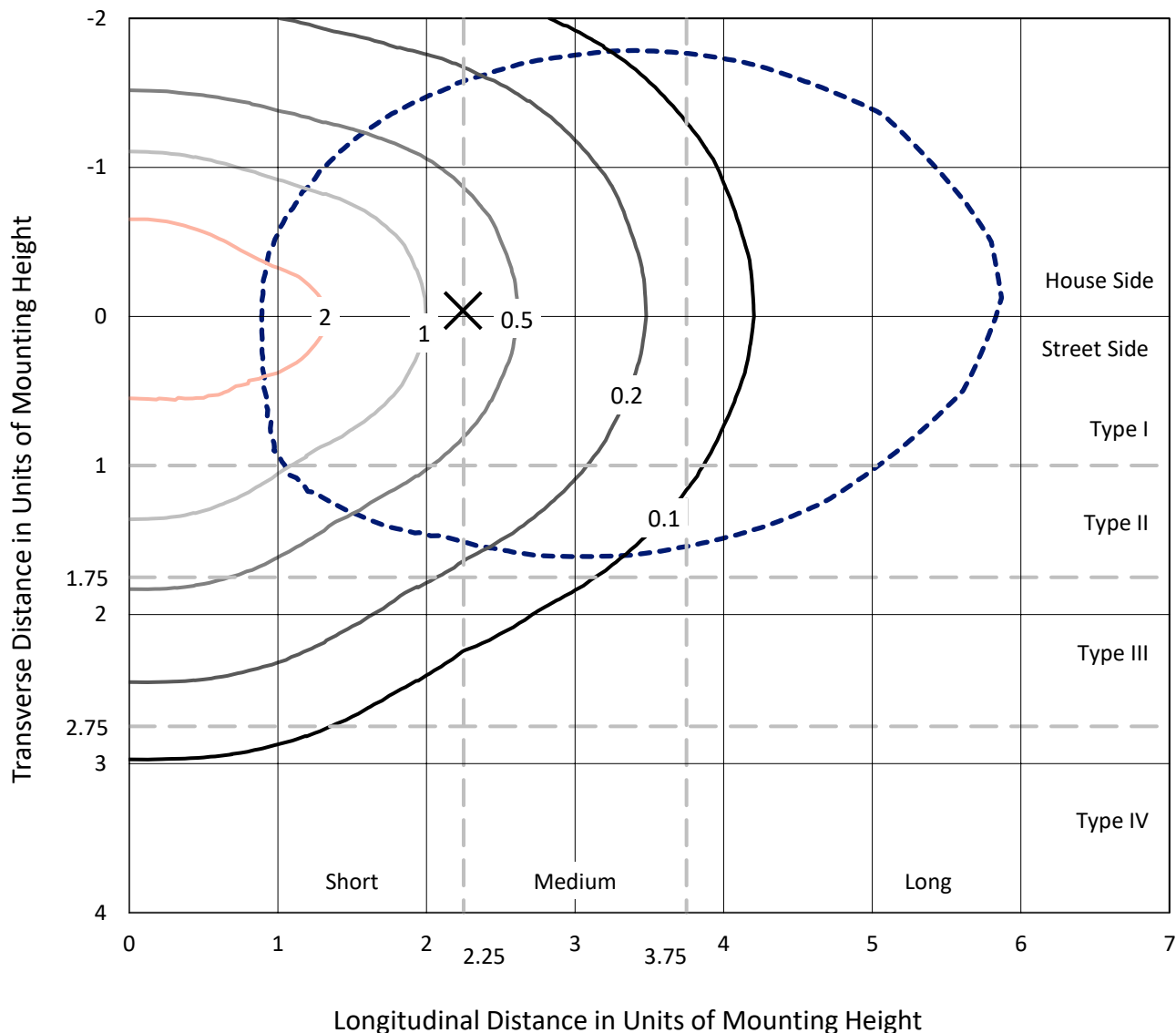
Input Watts (W): 29.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

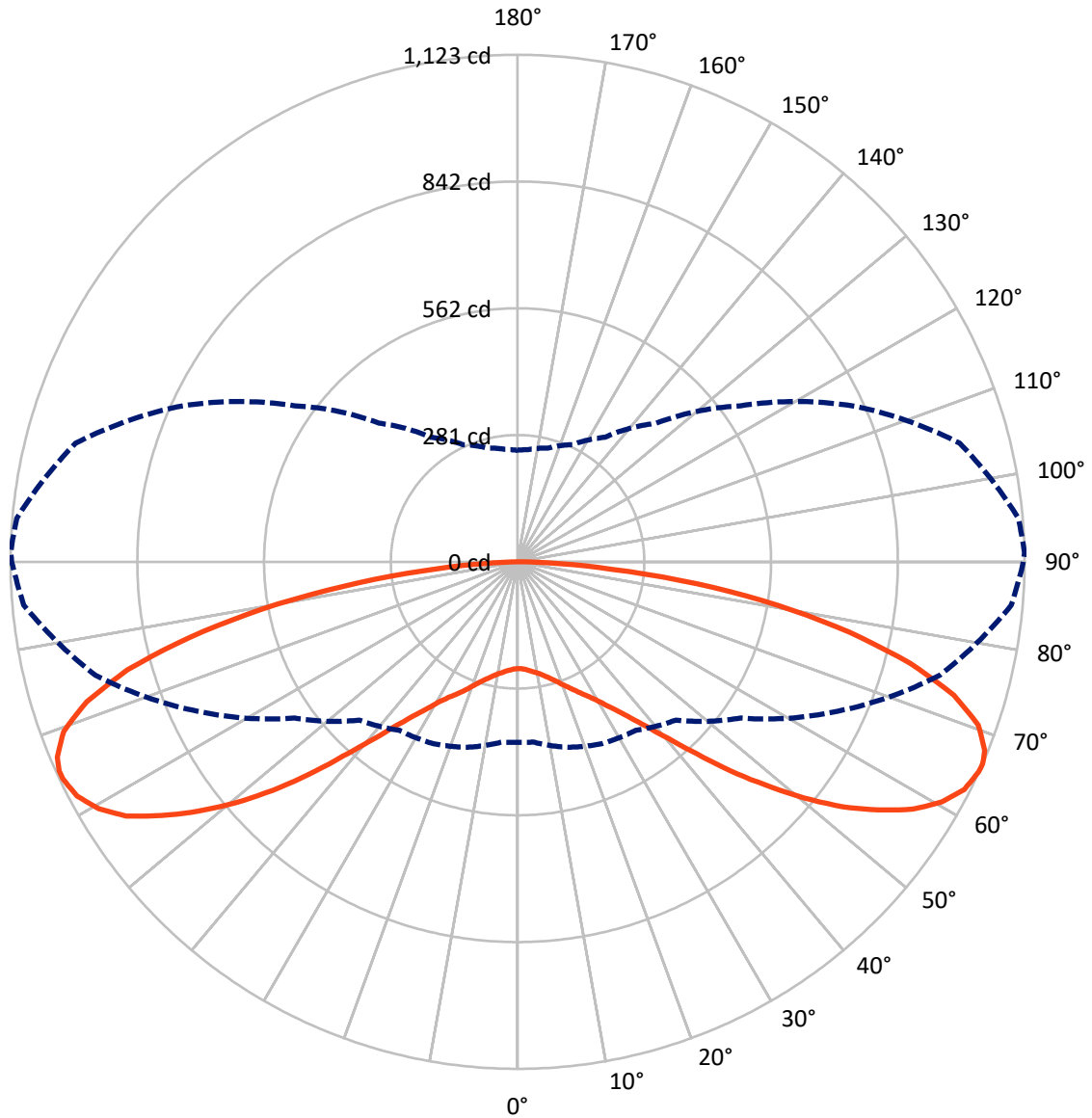
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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 CATALOG NUMBER: CCW-VA-1-727-U-T2

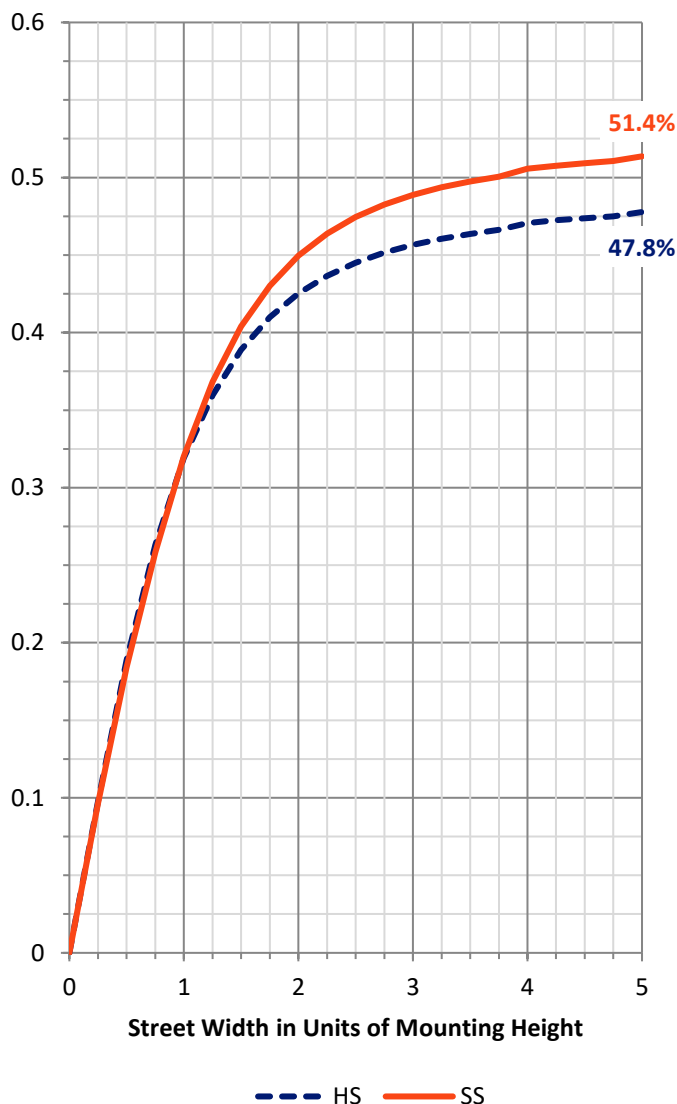
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1232.4	0.0	1232.4
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	1320.9	0.0	1320.9
	% Fixture	51.7	0.0	51.7
Total	Lumens	2553.3	0.0	2553.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.3	0.9
10°-20°	76.2	3.0
20°-30°	147.4	5.8
30°-40°	241.9	9.5
40°-50°	383.1	15.0
50°-60°	528.3	20.7
60°-70°	593.2	23.2
70°-80°	443.4	17.4
80°-90°	116.5	4.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2553.3	100.0
0°-180°	2553.3	100.0

Coefficient of Utilization

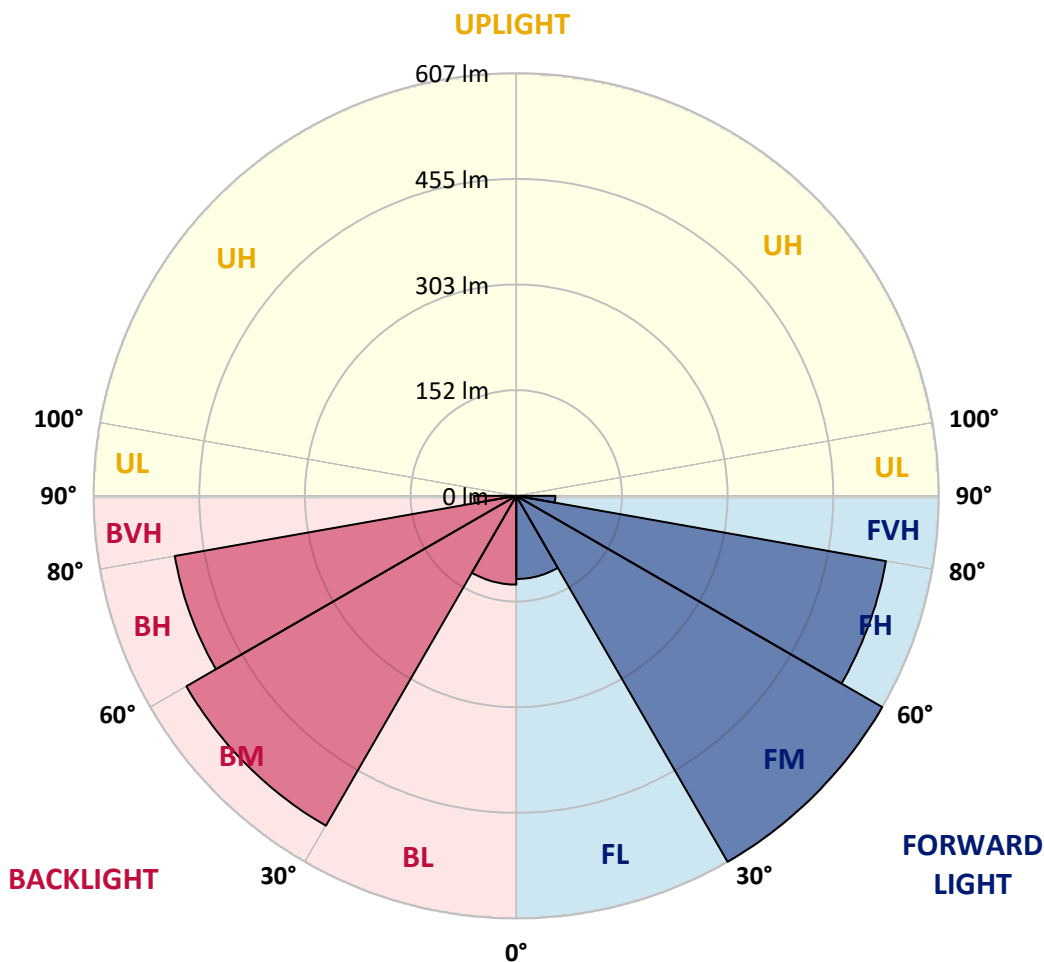


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 CATALOG NUMBER: CCW-VA-1-727-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	119.4	4.7			
FM (30°-60°)	606.6	23.8			
FH (60°-80°)	538.9	21.1			G0/660
FVH (80°-90°)	56.1	2.2			G1/100
BL (0°-30°)	127.5	5.0	B1/500		
BM (30°-60°)	546.7	21.4	B1/1000		
BH (60°-80°)	497.7	19.5	B1/500		G1/500
BVH (80°-90°)	60.4	2.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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 CATALOG NUMBER: CCW-VA-1-727-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	236.6	236.6	236.6	236.6	236.6	236.6	236.6	236.6	236.6	236.6	236.6
2.5°	237.5	237.5	237.5	237.5	238.4	238.4	238.4	238.4	238.4	237.5	237.5
5°	239.3	239.3	239.3	239.3	240.2	240.2	240.2	240.2	241.1	241.1	241.1
7.5°	241.1	241.1	242.0	242.0	242.9	242.9	243.8	243.8	244.7	245.6	245.6
10°	244.7	244.7	245.6	245.6	247.4	248.3	249.2	249.2	251.0	251.0	251.0
12.5°	249.2	250.1	251.0	251.9	253.7	254.6	255.6	256.5	257.4	258.3	258.3
15°	256.5	255.6	257.4	259.2	260.1	261.9	262.8	263.7	265.5	267.3	267.3
17.5°	261.9	262.8	263.7	265.5	267.3	270.0	271.8	273.6	275.4	277.2	277.2
20°	269.1	268.2	271.8	274.5	276.3	279.9	282.6	286.3	288.1	289.9	290.8
22.5°	275.4	276.3	278.1	281.7	285.4	290.8	296.2	298.9	301.6	303.4	306.1
25°	283.5	284.4	287.2	290.8	296.2	302.5	308.8	312.4	315.2	318.8	321.5
27.5°	291.7	291.7	296.2	301.6	307.9	316.1	323.3	326.9	331.4	335.9	337.7
30°	300.7	300.7	305.2	312.4	321.5	330.5	336.8	344.0	350.4	354.9	358.5
32.5°	314.2	314.2	319.7	326.9	336.8	347.7	356.7	363.9	372.0	380.2	387.4
35°	329.6	330.5	337.7	346.8	358.5	372.0	380.2	390.1	399.1	412.7	419.9
37.5°	354.0	354.9	363.0	374.7	386.5	400.9	414.5	426.2	439.8	455.1	460.5
40°	390.1	392.8	400.9	406.4	417.2	428.0	447.9	467.8	491.2	512.0	515.6
42.5°	455.1	452.4	447.0	445.2	447.9	459.6	481.3	512.0	553.5	579.7	579.7
45°	480.4	480.4	481.3	479.5	477.7	485.8	511.1	559.9	618.6	654.7	661.9
47.5°	484.9	485.8	493.9	501.2	503.0	512.0	542.7	606.8	685.4	738.7	743.2
50°	484.9	486.7	497.6	510.2	519.2	531.9	569.8	648.4	751.3	812.7	824.4
52.5°	483.1	484.9	496.7	512.0	526.5	544.5	593.3	691.7	810.0	893.1	898.5
55°	478.6	480.4	494.9	511.1	527.4	551.7	612.2	728.7	866.9	959.9	969.8
57.5°	473.2	475.9	491.2	508.4	523.7	553.5	624.9	757.6	912.9	1019.5	1037.6
60°	462.3	466.9	484.0	501.2	515.6	547.2	631.2	780.2	947.3	1062.8	1080.9
62.5°	440.7	445.2	464.1	483.1	497.6	531.9	627.6	791.0	967.1	1089.9	1108.9
65°	413.6	415.4	436.2	456.0	470.5	506.6	612.2	789.2	971.6	1099.0	1120.6
66°	400.0	400.9	425.3	444.3	456.0	495.8	603.2	782.9	968.9	1098.1	1120.6
67.5°	375.7	380.2	400.9	420.8	434.3	471.4	581.5	768.5	958.1	1089.0	1112.5
70°	333.2	336.8	354.0	373.8	388.3	423.5	534.6	726.0	918.4	1052.0	1079.1
72.5°	287.2	289.9	307.9	322.4	331.4	369.3	477.7	656.5	848.8	982.5	1008.7
75°	238.4	240.2	256.5	266.4	274.5	307.9	401.8	567.1	739.6	869.6	903.9
77.5°	187.8	188.7	202.3	211.3	211.3	240.2	318.8	459.6	606.8	726.9	752.2
80°	138.2	137.3	145.4	149.9	152.6	171.6	229.4	337.7	462.3	556.3	580.6
82.5°	90.3	89.4	94.8	96.6	96.6	108.4	144.5	214.0	303.4	377.5	391.9
85°	47.9	49.7	48.8	48.8	48.8	53.3	72.2	112.0	161.6	202.3	212.2
87.5°	8.1	8.1	8.1	9.0	10.8	14.4	19.0	31.6	46.1	62.3	70.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P472213
 CATALOG NUMBER: CCW-VA-1-727-U-T2

CANDELA DISTRIBUTION (continued):

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	236.6	236.6	236.6	236.6	236.6	236.6	236.6	236.6	236.6	236.6	236.6
2.5°	237.5	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4	238.4
5°	241.1	241.1	241.1	242.0	242.0	242.0	242.0	242.0	242.0	242.0	242.0
7.5°	245.6	245.6	246.5	246.5	246.5	247.4	247.4	246.5	246.5	246.5	246.5
10°	251.0	251.0	251.9	252.8	252.8	253.7	253.7	252.8	252.8	251.9	251.9
12.5°	258.3	259.2	260.1	261.0	261.9	261.9	261.0	260.1	259.2	258.3	258.3
15°	267.3	268.2	269.1	270.9	270.9	270.9	270.0	269.1	267.3	266.4	267.3
17.5°	278.1	279.0	280.8	281.7	282.6	281.7	281.7	280.8	280.8	279.9	279.9
20°	291.7	292.6	295.3	296.2	296.2	297.1	299.8	301.6	304.3	305.2	305.2
22.5°	305.2	307.0	309.7	313.3	315.2	318.8	319.7	321.5	320.6	317.9	317.9
25°	321.5	323.3	328.7	333.2	336.8	338.6	336.8	334.1	329.6	326.0	325.1
27.5°	338.6	341.3	349.5	355.8	357.6	355.8	348.6	342.2	336.8	332.3	330.5
30°	360.3	364.8	373.8	377.5	376.6	369.3	358.5	350.4	342.2	336.8	335.9
32.5°	387.4	391.9	400.0	400.9	395.5	382.0	367.5	356.7	346.8	340.4	339.5
35°	419.9	424.4	428.9	426.2	410.9	393.7	375.7	360.3	350.4	343.1	343.1
37.5°	461.4	464.1	464.1	450.6	427.1	404.5	382.0	363.9	353.1	345.9	345.0
40°	515.6	514.7	502.1	475.9	445.2	414.5	386.5	367.5	354.0	346.8	345.9
42.5°	580.6	574.3	547.2	504.8	462.3	423.5	391.9	368.4	353.1	345.9	345.0
45°	660.1	649.3	600.5	538.2	480.4	431.6	394.6	367.5	350.4	342.2	341.3
47.5°	738.7	732.3	665.5	573.4	498.5	440.7	396.4	364.8	345.0	333.2	333.2
50°	821.7	806.4	730.5	615.9	517.4	447.0	396.4	360.3	335.9	323.3	321.5
52.5°	902.1	886.8	796.5	658.3	538.2	453.3	394.6	354.0	327.8	314.2	312.4
55°	970.7	958.1	860.6	706.2	559.9	457.8	391.9	346.8	319.7	307.0	305.2
57.5°	1033.9	1021.3	916.6	746.8	580.6	460.5	385.6	337.7	309.7	297.1	296.2
60°	1080.0	1070.1	964.4	784.7	597.8	460.5	376.6	326.9	298.9	286.3	285.4
62.5°	1110.7	1100.8	998.7	810.0	608.6	454.2	363.0	312.4	285.4	273.6	270.9
65°	1122.4	1113.4	1014.1	819.9	606.8	441.6	345.0	294.4	268.2	256.5	254.6
66°	1123.3	1113.4	1014.1	818.1	602.3	434.3	336.8	286.3	261.0	249.2	247.4
67.5°	1116.1	1107.1	1007.8	809.1	589.7	420.8	320.6	272.7	247.4	235.7	234.8
70°	1082.7	1075.5	973.4	774.8	559.9	391.0	293.5	246.5	222.1	214.0	211.3
72.5°	1010.5	1002.3	904.8	710.7	511.1	350.4	259.2	215.8	196.0	186.0	185.1
75°	898.5	894.9	800.1	625.8	440.7	301.6	219.4	182.4	166.2	158.9	158.9
77.5°	752.2	745.0	664.6	517.4	362.1	243.8	176.1	148.1	135.5	129.1	130.0
80°	585.2	579.7	512.0	388.3	273.6	183.3	131.8	112.9	103.8	100.2	98.4
82.5°	400.9	386.5	341.3	257.4	177.9	123.7	91.2	78.6	74.0	73.1	72.2
85°	208.6	214.0	179.7	136.4	96.6	68.6	55.1	50.6	48.8	49.7	49.7
87.5°	68.6	70.4	54.2	41.5	31.6	24.4	20.8	19.9	17.2	19.0	19.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)